Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2018-12-03-03** **Date: 10-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Maruthinagara and surrounding areas in Ward No -01 Of yelahanka Sub Division
Agency	:	Sri.Nagoor Lokanadha Reddy Plat no ;102,1st Floor No;02 MSNR Enclave,2nd cross,Manorayanapalya.R.T.Nagara,Bangalore-32.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/000057/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-10-18
Sample ID No	:	2018-12-03-03 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	08-10-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	22	22	2.2	97.8	90-100	90-100	90-100	95-100
3	2.36 mm	185	207	20.7	79.3	60-95	75-100	85-100	95-100
4	1.18 mm	205	412	41.2	58.8	30-70	55-90	75-100	90-100
5	600 micron	218	630	63.0	37.0	15-34	35-59	60-79	80-100
6	300 micron	142	772	77.2	22.8	5-20	8-30	12-40	15-50
7	150 micron	173	945	94.5	5.5	0-10	0-10	0-10	0-15
8	Pan	55	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-12-03-03** **Date: 10-10-18**

Sample ID No : 2018-12-03-03 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.38	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	4.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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Quality Manager

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-12-03-03** **Date: 10-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Maruthinagara and surrounding areas in Ward No -01 Of yelahanka Sub Division
Agency	:	Sri.Nagoor Lokanadha Reddy Plat no ;102,1st Floor No;02 MSNR Enclave,2nd cross,Manorayanapalya.R.T.Nagara,Bangalore-32.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/000057/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-10-18
Sample ID No	:	2018-12-03-03 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	09-10-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.393	511	653	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.615	526	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.886	543	669	20.0%	Satisfactory	Satisfactory

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 22/10/2018

Lab ID	:	CP-2018-12-03-03
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Maruthinagara and surrounding areas in Ward No -01 Of yelahanka Sub Division
Agency	:	Sri.Nagoor Lokanadha Reddy Plat no ;102,1st Floor No;02 MSNR Enclave,2nd cross,Manorayanapalya.R.T.Nagara,Bangalore-32.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/000057/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-10-18
Sample ID No	:	2018-12-03-03 /01
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	15/10/2018	22/10/2018	150.01 X 149.04 X 150.40	22358	8.776	413.4	18.5	18.5
2	Drain Concrete	M20	15/10/2018	22/10/2018	150.22 X 150.68 X 150.76	22635	8.869	427.7	18.9	
3	Drain Concrete	M20	15/10/2018	22/10/2018	151.58 X 151.03 X 149.10	22893	8.609	413.6	18.1	

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-12-03-03 **Date: 12/11/2018**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Maruthinagara and surrounding areas in Ward No -01 Of yelahanka Sub Division

Agency : Sri.Nagoor Lokanadha Reddy Plat no ;102,1st Floor No;02 MSNR Enclave,2nd cross,Manorayanapalya.R.T.Nagara,Bangalore-32.

Customer's Reference : EE(YNK.D)E-PMT-19/W.O/000057/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-10-18

Sample ID No : 2018-12-03-03 /02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	15/10/2018	12/11/2018	149.48 X 151.41 X 151.97	22633	8.155	529.6	23.4	23.3
2	Drain Concrete	M20	15/10/2018	12/11/2018	151.95 X 150.35 X 150.68	22845	8.315	523.1	22.9	
3	Drain Concrete	M20	15/10/2018	12/11/2018	150.86 X 150.93 X 151.34	22769	8.897	540.3	23.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-12-03-03** **Date: 22/10/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Maruthinagara and surrounding areas in Ward No -01 Of yelahanka Sub Division
Agency	:	Sri.Nagoor Lokanadha Reddy Plat no ;102,1st Floor No;02 MSNR Enclave,2nd cross,Manorayanapalya.R.T.Nagara,Bangalore-32.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/000057/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-10-18
Sample ID No	:	2018-12-03-03 /03
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	15/10/2018	22/10/2018	150.05 X 151.89 X 150.50	22790	8.108	427.5	18.8	18.5
2	Drain Concrete	M20	15/10/2018	22/10/2018	149.95 X 151.85 X 151.02	22770	8.288	419.8	18.4	
3	Drain Concrete	M20	15/10/2018	22/10/2018	150.76 X 151.36 X 150.63	22820	8.639	416.0	18.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 12/11/2018

Lab ID	:	CP-2018-12-03-03
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Maruthinagara and surrounding areas in Ward No -01 Of yelahanka Sub Division
Agency	:	Sri.Nagoor Lokanadha Reddy Plat no ;102,1st Floor No;02 MSNR Enclave,2nd cross,Manorayanapalya.R.T.Nagara,Bangalore-32.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/000057/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-10-18
Sample ID No	:	2018-12-03-03 /04
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	15/10/2018	12/11/2018	149.79 X 151.91 X 149.60	22755	8.955	535.9	23.5	23.2
2	Drain Concrete	M20	15/10/2018	12/11/2018	149.04 X 149.04 X 150.31	22213	8.398	502.5	22.6	
3	Drain Concrete	M20	15/10/2018	12/11/2018	150.91 X 151.63 X 149.32	22882	8.826	537.6	23.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-12-03-03** **Date: 22/10/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Maruthinagara and surrounding areas in Ward No -01 Of yelahanka Sub Division
Agency	:	Sri.Nagoor Lokanadha Reddy Plat no ;102,1st Floor No;02 MSNR Enclave,2nd cross,Manorayanapalya.R.T.Nagara,Bangalore-32.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/000057/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-10-18
Sample ID No	:	2018-12-03-03 /05
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	15/10/2018	22/10/2018	151.70 X 151.42 X 151.22	22969	8.178	419.3	18.3	18.3
2	Drain Concrete	M20	15/10/2018	22/10/2018	149.27 X 149.82 X 149.97	22363	8.905	414.4	18.5	
3	Drain Concrete	M20	15/10/2018	22/10/2018	150.27 X 150.89 X 150.07	22674	8.701	414.1	18.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 12/11/2018

Lab ID	:	CP-2018-12-03-03
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Maruthinagara and surrounding areas in Ward No -01 Of yelahanka Sub Division
Agency	:	Sri.Nagoor Lokanadha Reddy Plat no ;102,1st Floor No;02 MSNR Enclave,2nd cross,Manorayanapalya.R.T.Nagara,Bangalore-32.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/000057/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-10-18
Sample ID No	:	2018-12-03-03 /06
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	15/10/2018	12/11/2018	150.98 X 149.83 X 149.14	22621	8.111	527.2	23.3	22.9
2	Drain Concrete	M20	15/10/2018	12/11/2018	151.18 X 151.28 X 149.66	22870	8.954	508.9	22.3	
3	Drain Concrete	M20	15/10/2018	12/11/2018	150.92 X 150.87 X 151.51	22768	9.052	524.7	23.0	

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Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Maruthinagara and surrounding areas in Ward No -01 Of yelahanka Sub Division
Agency	:	Sri.Nagoor Lokanadha Reddy Plat no ;102,1st Floor No;02 MSNR Enclave,2nd cross,Manorayanapalya.R.T.Nagara,Bangalore-32.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/000057/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-10-18
Sample ID No	:	2018-12-03-03 /07
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/10/2018

Date: 22/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	15/10/2018	22/10/2018	149.95 X 150.00 X 150.93	22493	8.138	421.5	18.7	18.7
2	Drain Concrete	M20	15/10/2018	22/10/2018	150.23 X 149.30 X 149.29	22428	8.808	414.6	18.5	
3	Drain Concrete	M20	15/10/2018	22/10/2018	151.63 X 151.06 X 149.07	22905	8.327	433.4	18.9	

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Lab ID	:	**CP-2018-12-03-03** **Date: 12/11/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Maruthinagara and surrounding areas in Ward No -01 Of yelahanka Sub Division
Agency	:	Sri.Nagoor Lokanadha Reddy Plat no ;102,1st Floor No;02 MSNR Enclave,2nd cross,Manorayanapalya.R.T.Nagara,Bangalore-32.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/000057/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-10-18
Sample ID No	:	2018-12-03-03 /08
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	15/10/2018	12/11/2018	149.48 X 151.39 X 151.44	22629	8.828	538.6	23.8	23.4
2	Drain Concrete	M20	15/10/2018	12/11/2018	150.98 X 151.62 X 149.81	22892	8.551	514.0	22.5	
3	Drain Concrete	M20	15/10/2018	12/11/2018	150.76 X 150.62 X 151.66	22707	8.975	543.4	23.9	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig Date BANGALORE

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2018-12-03-03**	**Date: 13-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads and Drains at Maruthinagara and surrounding areas in Ward No -01 Of yelahanka Sub Division	
Agency	:	Sri.Nagoor Lokanadha Reddy Plat no ;102,1st Floor No,02 MSNR Enclave,2nd cross,Manorayanapalya.R.T.Nagara,Bangalore-32.	
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/000057/2018-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	08-10-18	
Sample ID No	:	2018-12-03-03 /06	
Sample Type /Size	:	Precast Cover Slab	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	09/10/2018	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-12-03-03** **Date: 11-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Maruthinagara and surrounding areas in Ward No -01 Of yelahanka Sub Division
Agency	:	Sri.Nagoor Lokanadha Reddy Plat no ,102,1st Floor No;02 MSNR Enclave,2nd cross,Manorayanapalya.R.T.Nagara,Bangalore-32.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/000057/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-10-18
Sample ID No	:	2018-12-03-03 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	09-10-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.87	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.7	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	265 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-12-03-03** **Date: 06-11-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Maruthinagara and surrounding areas in Ward No -01 Of yelahanka Sub Division
Agency	:	Sri.Nagoor Lokanadha Reddy Plat no ;102,1st Floor No;02 MSNR Enclave,2nd cross,Manorayanapalya.R.T.Nagara,Bangalore-32.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/000057/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-10-18
Sample ID No	:	2018-12-03-03 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	09-10-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

SI.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-03-03** **Date: 11-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Maruthinagara and surrounding areas in Ward No -01 Of yelahanka Sub Division
Agency	:	Sri.Nagoor Lokanadha Reddy Plat no ;102,1st Floor No;02 MSNR Enclave,2nd cross,Manorayanapalya.R.T.Nagara,Bangalore-32.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/000057/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	08-10-18
Sample ID No	:	2018-12-03-03 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-10-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	245	245	1.6	98.4	90-100
3	20 mm	7875	8120	54.1	45.9	30-70
4	10 mm	3899	12019	80.1	19.9	10-35
5	4.75 mm	2588	14607	97.4	2.6	0-5
6	Pan	393	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-12-03-03** **Date: 11-10-18**

Sample ID No : 2018-12-03-03 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.38	–
5	Bulk Density(Compacted) (Kg/l)	1.45	–
6	Water Absorption(%)	0.22	–

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-03-03** **Date: 10-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Maruthinagara and surrounding areas in Ward No -01 Of yelahanka Sub Division
Agency	:	Sri.Nagoor Lokanadha Reddy Plat no ;102,1st Floor No,02 MSNR Enclave,2nd cross,Manorayanapalya.R.T.Nagara,Bangalore-32.
Customer Reference	:	EE(YNK.D)E-PMT-19/W.O/000057/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-10-18
Sample ID No	:	2018-12-03-03 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-10-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	298	298	6.0	94.0	90-100
3	10 mm	2645	2943	58.9	41.1	25-55
4	4.75 mm	1811	4754	95.1	4.9	0-10
5	Pan	246	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-12-03-03** **Date: 10-10-18**

Sample ID No : 2018-12-03-03 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.42	–
5	Bulk Density(Compacted) (Kg/l)	1.48	–
6	Water Absorption(%)	0.35	–
7	Aggregate crushing Value(%)	24.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	25.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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